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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/541,993	07/08/2005	Markus Matuschek	13311-00010-US	1427
23416 CONNOLLY	7590 10/09/200'	EXAMINER		
CONNOLLY BOVE LODGE & HUTZ, LLP P O BOX 2207			JOIKE, MICHELE K	
WILMINGTON, DE 19899			ART UNIT	PAPER NUMBER
			1636	,
			MAIL DATE	DELIVERY MODE
			10/09/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/541,993	MATUSCHEK ET AL.				
Office Action Summary	Examiner	Art Unit				
	Michele K. Joike, Ph.D.	1636				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>08 Ju</u> 2a) This action is <b>FINAL</b> . 2b) This 3) Since this application is in condition for allowan closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro					
Disposition of Claims						
4) ⊠ Claim(s) <u>1-41</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) <u>1-41</u> are subject to restriction and/or expressions.	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction  11) The oath or declaration is objected to by the Examiner  9) The specification is objected to by the Examiner  10) The oath or declaration is objected to by the Examiner	epted or b) objected to by the I drawing(s) be held in abeyance. See on is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the priority application from the International Bureau</li> <li>* See the attached detailed Office action for a list of</li> </ul>	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte				

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## **DETAILED ACTION**

## Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group 1, claim(s) 1-23, 26, 27, 30-37, 39-41, drawn to a method for producing a genetically modified organism of the Blakeslea genus, a promoter and the vector comprising SEQ ID NO: 3, and a genetically modified cell, and a method for producing carotenoids, carotenes or xanthophylls.

Group 2, claim(s) 1-12, 14-24, 26, 27, 30-36, 38-41, drawn to a method for producing a genetically modified organism of the Blakeslea genus, a promoter and the vectors comprising SEQ ID NO: 70, 71 and 76, and a genetically modified cell, and a method for producing carotenoids, carotenes or xanthophylls.

Group 3, claim(s) 1-12, 14-24, 26, 27, 30-36, 38-41, drawn to a method for producing a genetically modified organism of the Blakeslea genus, a promoter and the vector comprising SEQ ID NO: 72, and a genetically modified cell, and a method for producing carotenoids, carotenes or xanthophylls.

Groups 4-18, claim(s) 1-12, 14-23, 25-27, 30-36, 39-41, drawn to a method for producing a genetically modified organism of the Blakeslea genus, a promoter and the vector comprising SEQ ID NO: 37-51. Note: Each Group contains a separate vector, i.e., Group 4 comprises SEQ ID NO: 37, Group 5 comprises SEQ ID NO: 38, etc., and a genetically modified cell, and a method for producing carotenoids, carotenes or xanthophylls.

Group 19, claim(s) 1-12, 14-23, 26-28, 30-36, 38-41, drawn to a method for producing a genetically modified organism of the Blakeslea genus, a promoter and the vector comprising SEQ ID NO: 69, and a genetically modified cell, and a method for producing carotenoids, carotenes or xanthophylls.

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Group 20, claim(s) 1-12, 14-23, 26-27, 29-36, 39-41, drawn to a method for producing a genetically modified organism of the Blakeslea genus, a promoter and the vector comprising SEQ ID NO: 62, and a genetically modified cell, and a method for producing carotenoids, carotenes or xanthophylls.

The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The special technical feature of Groups 1-20 is the vector used in the method for producing a genetically modified organism of the Blakeslea genus. This special technical feature differs among the Groups because it represents a method of producing a host organism composed of different nucleic acid sequences. Each vector is biochemically and structurally different from each other. Therefore, each produced organism will have a different genetic make-up.

Because of the reasons set forth above, the inventions have different special technical features and are therefore patentably distinct.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1:48(b) and by the fee required under 37 CFR 1.17(i).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michele K. Joike, Ph.D. whose telephone number is 571-272-5915. The examiner can normally be reached on M-F, 9:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Woitach can be reached on 571-272-0739. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nancy T. Vogel/ Primary Examiner, 1636 Michele K Joike, Ph.D. Examiner Art Unit 1636